## **CLAIMS**

- 1. (Currently amended) A method of determining whether a stimulus is capable of activating a candidate cis-acting regulatory element in an a primary immunocyte, wherein said cis-acting regulatory element is regulated by at least one transcription factor or enhancer, and wherein said stimulus is known to modulate expression of a signaling pathway, said method comprising the steps of:
  - (a) transfecting said immunocyte with a recombinant adenovirus, said recombinant adenovirus comprising a reporter gene operatively linked to said candidate cisacting regulatory element;
  - (b) measuring a base level of reporter gene activity;
  - (c) applying said stimulus to said immunocyte; and
  - (d) measuring reporter gene activity in response to said stimulus.
- 2. (Withdrawn) (Original) The method of Claim 1 wherein said stimulus comprises modulating expression of a regulatory protein and said applying step (c) comprises modulating the expression of said regulatory protein.
- 3. (Withdrawn) (Original) The method of Claim 2 further comprising the step of cotransfecting said immunocyte with an expression system for said regulatory protein.
- 4. (Withdrawn) (Original) The method of Claim 1 wherein said applying step (c) comprises introducing a candidate regulatory compound.
- 5. (Original) The method of Claim 1 wherein said reporter gene is selected from the group consisting of: luciferase, green fluorescent protein ("GFP"), β-galactosidase ("GAL"), chloramphenicol acetyltransferase ("CAT").
- 6. (Withdrawn) (Original) The method of Claim 1 wherein said reporter gene is a suppressor gene.
- 7. (Withdrawn) (Original) The method of Claim 6 wherein said supressor gene is IkBsd.

- 8. (Original) The method of Claim 1 wherein said cis-acting regulatory element is modulated by regulatory proteins related to inflammation.
- 9. (Original) The method of Claim 1 wherein said cis-acting regulatory element is selected from the group consisting of: AP-1, CRE, ISRE, NFAT, NFκB, and SRE.
- 10. (Original) The method of Claim 1 wherein said immunocyte is selected from the group consisting of: macrophage, CD4<sup>+</sup> T cell, and immature dendritic cell.
- 11. (Withdrawn) (Original) A method of inhibiting expression of a signaling pathway in an immunocyte comprising the steps of:
  - (a) transfecting said immunocyte with a recombinant adenovirus, wherein said recombinant adenovirus comprises a suppressor gene operatively linked to a cisacting regulatory element, wherein said cisacting regulatory element belongs to said signaling pathway; and
  - (b) inducing expression of said suppressor gene.
- 12. (Withdrawn) (Original) The method of Claim 11 wherein said signaling pathway is the NFκB signaling pathway.
- 13. (Withdrawn) (Original) The method of Claim 11 wherein said suppressor gene is IkBsd.
- 14. (Withdrawn) (Original) The method of Claim 11 wherein said immunocyte is selected from the group consisting of: macrophage, CD4<sup>+</sup> T cell, and immature dendritic cell.